510(k) Summary

This summary of the 510(k) safety and effectiveness information is being submitted in accordance with the requirement 21 CFR 807.92

Lyphochek Specialty Immunoassay Control . 510(k) Number: k133960

1.0 Submitter

Bio-Rad Laboratories 9500 Jeronimo Road, Irvine, California 92618-2017 Telephone: (949) 598-1200

Fax:

(949) 598-1557

Contact Person

Suzanne Parsons Regulatory Affairs Manager Telephone: (949) 598-1467

Email: Suzanne_Parsons@bio-rad.com

Date of Summary Preparation

January 10, 2014

2.0 Device Identification

Product Trade Name:

Lyphochek Specialty Immunoassay Control

Common Name:

Multi-Analyte Controls, All Kinds (Assayed)

Classifications: Product Code: Class I reserved

JJY

Regulation Number:

21 CFR 862 1660

3.0 Device to Which Substantial Equivalence is Claimed

Liquichek Specialty Immunoassay Control

510(k) Number: k043108

4.0 Intended Use

Lyphochek Specialty Immunoassay Control is intended for use as an assayed quality control serum to monitor the precision of laboratory testing procedures for the analytes listed in this package insert.

5.0 Description of Device

Lyphochek Specialty Immunoassay Control is prepared from human serum with added chemicals, stabilizers, and preservatives. The control is provided in lyophilized form and contains the following analytes:

- Erythropoietin (EPO)
- Procalcitonin
- Intact Parathyroid Hormone (Intact PTH)
- Sex Hormone Binding Globulin (SHBG)
- Vitamin D

Each human donor unit used to manufacture this control was tested by FDA accepted methods and found non-reactive for Hepatitis B Surface Antigen (HBsAg), antibody to Hepatitis C (HCV) and antibody to HIV-1/HIV-2.

Product Configurations

Description	Configuration
Lyphochek Specialty Immunoassay Control, Level 1	6 x 2 mL
Lyphochek Specialty Immunoassay Control, Level 2	6 x 2 mL
Lyphochek Specialty Immunoassay Control, Level 3	6 x 2 mL
Lyphochek Specialty Immunoassay Control, Trilevel MiniPak	3 x 2 mL

6.0 Value Assignment

The mean values and the corresponding ±3SD ranges indicated on the control value sheet provided for Lyphockek Specialty Control were derived from replicate analyses and are specific for each lot of product. The tests listed on the control value sheet were performed by the manufacturer and/or independent laboratories using manufacturer supported reagents and a representative sampling of the lot of product. It is recommended that each laboratory establish its own acceptable ranges and use those provided only as guides. Laboratory established ranges may vary from those listed during the life of this control. Variations over time and between laboratories may be caused by differences in laboratory technique, instrumentation and reagents, or by manufacturer test method modifications.

7.0 Comparison of the new device with the Predicate Device

Lyphochek Specialty Immunoassay Control claims substantial equivalence to the Liquichek Specialty Immunoassay Control currently in commercial distribution (k043108). The table below contains comparison information of similarities and differences between the new and predicate device to which substantial equivalence is claimed.

Similarities and Differences between new and predicate device.

Ob4!-4!		Similarities and Differences between new and predicate device.								
Characteristics	Lyphochek Specialty Immunoassay Control (Candidate Device)	Liquichek Specialty Immunoassay Control (<i>Predicate Device</i> , k043108)								
-	Similarities 👙 .									
Intended Use	Lyphochek Specialty Immunoassay Control is intended for use as an assayed quality control serum to monitor the precision of laboratory testing procedures for the analytes listed in the package insert.	Liquichek Specialty Immunoassay Control is intended for use as a quality control serum to monitor the precision of laboratory testing procedures for the analytes listed in this package insert.								
Matrix	Human Serum	Human Serum								
Preservatives	Contains preservatives	Contains preservatives								
Stabilizers	Contains stabilizers	Contains stabilizers								
Man 不分子。1.6.6.16.6.14.14.16.16.16.16.16.16.16.16.16.16.16.16.16.	Differences A									
Form ·	Lyophilized	Liquid								
Storage unopened (Shelf life)	2 to 8°C until expiration date	-20 to -70°C until expiration date								
Reconstituted / Opened Vial	30 days at 2°C to 8 °C	30 days at 2°C to 8 °C								
Stability	Except: > Intact PTH: 12 days at 2°C to 8 °C > Procalcitonin: 3 days at 2°C to 8 °C	Except: > Intact PTH: 23 days at 2 to 8°C								
Fill Volume	2 mL	5 mL								
	MiniPak: Trilevel - 3 x 2 mL	MiniPak: Four level - 4 x 5 mL								
Frozen Aliquot stability	All analytes : 30 days at -20°C to -70°C	No Claim								
Analytes	Contains:	Contains: Anti-Thyroglobulin (Anti-Tg) Anti-Thyroperoxidase (Anti-TPO) C-Peptide Insulin Like Growth Factor I (IGF-I) Intact Parathyroid Hormone (Intact PTH) 25-OH Vitamin D								
	Does not contain: Anti-Thyroglobulin (Anti-Tg) Anti-Thyroperoxidase (Anti-TPO) C-Peptide Insulin Like Growth Factor I (IGF-I) Osteocalcin	 Osteocalcin Erythropoietin (EPO) Does not contain: Procalcitonin Sex Hormone Binding Globulin (SHBG) 								

8.0 Stability

Real time stability studies were performed to establish reconstituted/open vial stability and frozen aliquot stability. Accelerated stability studies were performed for establishing the shelf life stability. The stabilities for Lyphochek Specialty Immunoassay Control are as follows:

Reconstituted Vial Stability: Intact Parathyroid Hormone (Intact PTH): 12 days at 2°C to 8 °C

Procalcitonin: 3 days at 2°C to 8 °C

Erythropoietin (EPO), Sex Hormone Binding Globulin (SHBG)

and Vitamin D: 30 days at 2 to 8°C

Frozen Aliquot Stability:

30 days at -20°C to -70°C

Shelf Life Stability:

36 Months at 2 to 8°C

9.0 Conclusion

Based on the performance characteristics indicated above, Lyphochek Specialty Immunoassay Control is substantially equivalent to the predicate device (k043108)?

All supporting data is retained on file at Bio-Rad Laboratories.



Food and Drug Administration 10903 New Hampshire Avenue Document Control Center – WO66-G609 Silver Spring, MD 20993-0002

January 22, 2014

BIO-RAD LABORATORIES SUZANNE PARSONS REGULATORY AFFAIRS MANAGER 9500 JERONIMO RD. IRVINE CA 92618-2017

Re: K133960

Trade/Device Name: Lyphochek Specialty Immunoassay Control

Regulation Number: 21 CFR 862,1660

Regulation Name: Quality control material (assayed and unassayed)

Regulatory Class: I Reserved

Product Code: JJY

Dated: December 20, 2013 Received: December 24, 2013

Dear Ms. Parsons:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulations (21 CFR Parts 801 and 809), please contact the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638 2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Courtney H. Lias -S

Courtney H. Lias, Ph.D.
Director
Division of Chemistry and Toxicology Devices
Office of In Vitro Diagnostics
and Radiological Health
Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement on last page.

evice Name phochek Specialty Immunoassay Cont	ml			
dications for Use (Describe) phochek Specialty Immunoassay Cont boratory testing procedures for the anal	rol is intended for use as an ytes listed in this package in	assayed quality consert.	strol serum to monitor the precision of	•
		•		
•				
•				
	,			
		•		
			i .	
	·	•		
pe of Use (Select one or both, as appli	cable)			
Prescription Use (Part	21 CFR 801 Subpart D)	Over-The-C	Counter Use (21 CFR 801 Subpart C)	
PLEASE DO NOT WRITE	BELOW THIS LINE - C	ONTINUE ON A	SEPARATE PAGE IF NEEDED.	
	AND TORUSTON	SEGNEY - CE		1
oncurrence of Center for Devices and R				(هنيه
	_			
Yung Willian	-S			

This section applies only to requirements of the Paperwork Reduction Act of 1995.

DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.

The burden time for this collection of information is estimated to average 79 hours per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, to:

Department of Health and Human Services Food and Drug Administration Office of Chief Information Officer Paperwork Reduction Act (PRA) Staff PRAStaff@fda.hhs.gov

"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."

Page 2 c	ł	ź
----------	---	---